

ENVIRONMENTAL STUDIES EMPHASIS (AA DEGREE A0411)

Humanities and Social Sciences Division

An emphasis in Environmental Studies is an interdisciplinary course of study that provides students with an integrated and critical understanding of the natural environment and human interactions with it. The coursework is designed to examine the interplay between natural and social systems and the ideological foundations of humanity's attitudes and behaviors in relation to its ever-changing environment. This program is designed to prepare students to research, analyze, and propose solutions to the myriad environmental challenges facing the world today through a well-rounded curriculum combining classroom, laboratory, and field study instruction. Students who are interested in an Environmental Science major are advised to follow the AA in Liberal Arts with an emphasis in natural sciences and to work with a counselor to select major courses appropriate to their intended transfer institution.

This degree requires the completion of General Education coursework plus the following:

Required Courses

Course Prefix	Course Name	Units
Choose a combination of any 3 courses		9-11
BIOL 6	Humans and the Environment	
BIOL 6L	Humans and the Environment Laboratory	
BUSC 1A	Principles of Economics - Macroeconomics	
or BUSC 1AH	Principles of Economics - Macroeconomics - Honors	
GEOG 9	Environmental Geology	
POLI 10	Environmental Politics	
Scientific Inquiry and Quantitative Reasoning		
Choose a minimum of three units from the following:		3-5
BIOL 1	General Biology	
BIOL 3	Ecology and Field Biology	
BIOL 4	Biology for Majors	
or BIOL 4H	Biology for Majors - Honors	
BIOL 20	Marine Biology	
BIOL 21	Marine Biology Laboratory	
BIOL 25	Conservation Biology	
BTNY 3	Plant Structures, Functions, and Diversity	
CHEM 10	Chemistry for Allied Health Majors	
CHEM 40	Introduction to General Chemistry	
CHEM 50	General Chemistry I	
or CHEM 50H	General Chemistry I - Honors	
GEOG 1	Physical Geography	
or GEOG 1H	Physical Geography - Honors	
GEOG 1L	Physical Geography Laboratory	
or GEOG 1LH	Physical Geography Laboratory - Honors	
GEOG 10	Introduction to Geographic Information Systems	
GEOG 1	Physical Geology	
GEOG 8	Earth Science	
or GEOG 8H	Earth Science - Honors	
GEOG 8L	Earth Science Laboratory	
MATH 110	Elementary Statistics	

	or MATH 110H	Elementary Statistics - Honors	
MATH 140	Calculus for Business		
MATH 160	Precalculus Mathematics		
MATH 180	Calculus and Analytic Geometry		
METO 3	Weather and the Atmospheric Environment		
METO 3L	Weather and Atmospheric Environment Laboratory		
OCEA 10	Introduction to Oceanography		
or OCEA 10H	Introduction to Oceanography - Honors		
OCEA 10L	Introduction to Oceanography Laboratory		
OCEA 20	The Coastal Ocean		
PHYS 1	Physics		
PHYS 2AG	General Physics		
PHYS 4A	Engineering Physics		
PHSC 9	Physical Science		
PSYC 10	Statistics for the Behavioral Sciences		
Social Science			
Choose two of the following options:			6
ANTH 5	Cultural Anthropology		
or ANTH 5H	Cultural Anthropology - Honors		
BUSC 1B	Principles of Economics - Microeconomics		
or BUSC 1BH	Principles of Economics - Microeconomics - Honors		
GEOG 2	Human Geography		
or GEOG 2H	Human Geography - Honors		
GEOG 5	World Regional Geography		
GEOG 30	Geography of California		
PHIL 12	Introduction to Ethics		
or PHIL 12H	Introduction to Ethics - Honors		
POLI 1	Introduction to American Government and Politics		
or POLI 1H	Introduction to American Government and Politics - Honors		
SOC 2	Contemporary Social Problems		
or SOC 2H	Contemporary Social Problems - Honors		

Total Units 18-22

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate critical thinking skills in relation to environmental issues
- Demonstrate an ability to integrate the many disciplines and fields that intersect with environmental concerns
- Demonstrate an awareness, knowledge, and appreciation of ecological processes and their relationship they have with human communities
- Demonstrate an ability to integrate environmental issues within the concept of sustainability

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.